## Homework Assignment IV

This assignment is significantly more involved that the previous ones, and therefore is worth 15 points, and is due in class on Thu, April 4.

Part A: CFT in two dimensions.

Problems 2.1, 2.3a, 2.10 and 2.12 from [Polchinski, Vol. I] (since by now every-body has his/her version of Polchinski's book, I will not copy the problems here explicitly).

Part B: The Polyakov path integral.

Problems **3.2**, **3.8** and **3.9** from [Polchinski, Vol. I] (the last two problems will require some independent study of Section 3.6 of Polchinski).